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### (54) WATER-BASED INK-JET INK COMPOSITION FOR PRINTING ON COMMERCIALY AVAILABLE OFFSET COATED MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a water-based ink-jet ink for printing on an offset medium.

SOLUTION: The water-based ink-jet ink for printing on an offset medium comprises an ink colorant, an effective amount of at least one surfactant and an effective amount of at least one aprotic polar solvent, where the solvent is composed of a molecule having a molecular weight of 40-1,500. Optionally, an effective amount of non-protic polar solvent can be added. The water-based ink-jet ink is effective for printing on many commercially available offset papers and other media.

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**CLAIMS**

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[Claim(s)]

[Claim 1]In an aquosity ink jet composition for printing to a medium for offset, :a ink colorant, b) An effective dose of at least one surface-active agent, and c) An aquosity ink jet composition which contains an effective dose of at least one aprotic polar solvent and in which said solvent consists of a molecule of the molecular weight 40 - 1500 \*\*.

[Claim 2]In an aquosity ink jet composition for printing to a medium for offset, :a 2wt% - 6wt% of ink colorant, b) An aprotic polar solvent which consists of a molecule of 1wt% - 10wt% of surface-active agent, c 5wt% - 40wt% of the molecular weights 40-1500, And an aquosity ink jet composition containing a polar solvent which is not aprotic [ which consists of a molecule of d 1wt% - 40wt% of the molecular weights 40-1500 ].